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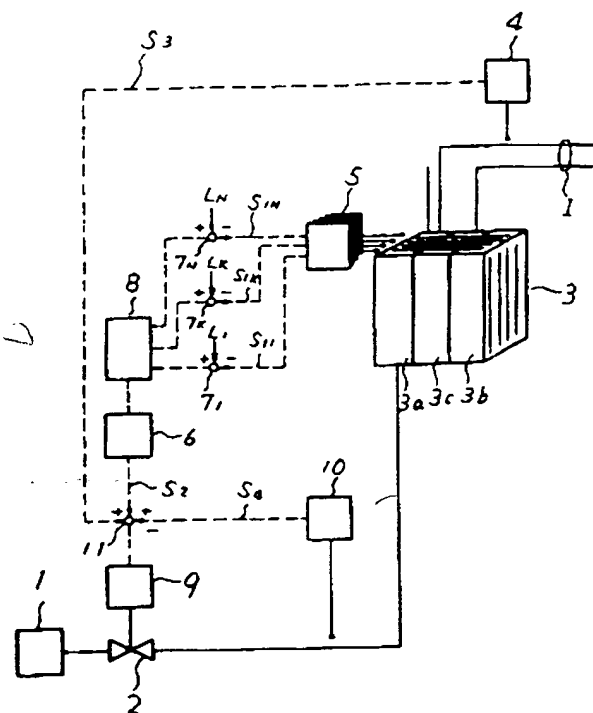
APPLICATION DATE : 25-10-83
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APPLICANT : TOSHIBA CORP;

INVENTOR : HAYAKAWA KAZUHIRO;

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TITLE : AIR-SUPPLY-CONTROLLING SYSTEM
FOR FUEL CELL PLANT



ABSTRACT : PURPOSE: To enable all stacked cells to perform power generation of equal voltage by increasing the amount of air flow when the voltage of each cell becomes lower than the limit level so as to restore a normal voltage level.

CONSTITUTION: An air-flow-amount-controlling part 9 performs closed-loop control by using an air flow amount signal (S_4) so that the amount of air flow is usually controlled according to the current signal (S_3) of an output current (i) from a fuel cell 3. When the amount of air flow is insufficient to supply an amount of oxygen necessary for the whole air electrode 3, one (for example S_{1K}) of voltage signals ($S_{11} \sim S_{1N}$) produced by a corresponding voltage detector 5 decreases. Next, the voltage signals ($S_{11} \sim S_{1N}$) are compared with set limit levels ($L_1 \sim L_N$) in comparators $7_1 \sim 7_N$. After that, the large deviation level ($L_K \sim S_{1K}$) is selected in a signal selector 8 before an air-flow-amount-correcting signal (S_2) corresponding to the deviation is produced in an air-flow-amount- correcting part 6.

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